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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/880,707 06/12/2001		Daniel Yellin	10559-449001 / P10766	5530		
20985	7590	03/22/2006		EXAMINER		
FISH & RIC P.O. BOX 10		SON, PC	TORRES, JOSEPH D			
MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER	
				2133	2133	

DATE MAILED: 03/22/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	_
09/880,707	YELLIN ET AL.	
Examiner	Art Unit	
Joseph D. Torres	2133	

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The MAILING DATE of this communication appe	ars on the cover sheet with the d	correspondence add	ress
THE REPLY FILED <u>03 March 2006</u> FAILS TO PLACE THIS AP	PLICATION IN CONDITION FOR	ALLOWANCE.	
1. The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a No a Request for Continued Examination (RCE) in compliance time periods:	ving replies: (1) an amendment, aft tice of Appeal (with appeal fee) in	fidavit, or other evider compliance with 37 C	rce, which FR 41.31; or (3)
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire is Examiner Note: If box 1 is checked, check either box (a) or (TWO MONTHS OF THE FINAL REJECTION. See MPEP 7 Extensions of time may be obtained under 37 CFR 1.136(a). The date have been filed is the date for purposes of determining the period of ex- under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the second	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailin (b). ONLY CHECK BOX (b) WHEN THE 06.07(f). on which the petition under 37 CFR 1.1 tension and the corresponding amount	g date of the final rejecting FIRST REPLY WAS For the same of the appropriation of the fee. The appropriation of the fee.	on. ILED WITHIN te extension fee ate extension fee
set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL	than three months after the mailing da	te of the final rejection, e	even if timely filed,
 The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed AMENDMENTS 	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th	s of the date of e appeal. Since
 The proposed amendment(s) filed after a final rejection, (a) They raise new issues that would require further co (b) They raise the issue of new matter (see NOTE belo 	nsideration and/or search (see NO w);	TE below);	
 (c) ☐ They are not deemed to place the application in bet appeal; and/or (d) ☐ They present additional claims without canceling a 			the issues for
NOTE: (See 37 CFR 1.116 and 41.33(a)).	04. Can attack at Nation of Nation		(DTO) 00 ()
4. The amendments are not in compliance with 37 CFR 1.15. Applicant's reply has overcome the following rejection(s)		empliant Amendment (PTOL-324).
Newly proposed or amended claim(s) would be al non-allowable claim(s).			_
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is provided that the status of the claim(s) is (or will be) as follows: Claim(s) allowed:	☑ will not be entered, or b) ☑ wi vided below or appended.	ll be entered and an e	xplanation of
Claim(s) objected to: Claim(s) rejected:			
Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 	d sufficient reasons why the affiday	it or other evidence is	necessary and
The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under apper and was not earlier presented. S	al and/or appellant fai ee 37 CFR 41.33(d)(1	ls to provide a).
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	of the status of the claims after e	ntry is below or attach	ed.
 The request for reconsideration has been considered bu <u>See Continuation Sheet.</u> 			ice because:
12. Note the attached Information Disclosure Statement(s).	JOSEPHIZORDES	lo(s)	
/ F	PRIMARY EXAMINER		
		Joseph D. Torres, F Primary Examiner Art Unit: 2133	PhD

U.S. Patent and Trademark Office PTOL-303 (Rev. 7-05)

Advisory Action Before the Filing of an Appeal Brief

Part of Paper No. 20060316

stated result.

Continuation of 11. does NOT place the application in condition for allowance because: The Applicant contends, "The principle articulated by In re Hyatt as cited by the Examiner is applicable only to a claim that includes a single limitation expressed in means-plus-function language. That is not the case here. First, the cited claim does not recite the structural term "means" but instead recites "An article comprising a computer-readable medium." Second, the term "computer-readable medium" has a well-known meaning to persons of ordinary skill in the art and is not a "coined term lacking a clear meaning." See Personalized Media Communications LLC v. ITC, 161 F.3d 696, 704 (Fed. Cir. 1998) (discussing the term "digital detector"). Although the term "computerreadable medium" may not specifically evoke a particular structure, it does convey to a person knowledgeable in the art a variety of structures known as "computer-readable media." That indicates that the "computer-readable medium" limitation is not subject to section 112, par. 6. Therefore, the principle discussed by In re Hyatt is inapplicable to claims 16-18, 22 and the rejection should be withdrawn".

The Examiner asserts that 37 CFR 1.75 (i) requires that claim be properly indented to distinguish steps of a method or elements of an article. Since there is no indentation in claim 16, the Examiner can only assume that claim 16 is a single preamble. Claim 35 in In Re Hyatt has a preamble with a single means. Claim 16 in the Applicant's application has a single preamble (which is not given patentable weight) with no specified means and no limitations, even less than what claim 35 in In Re Hyatt has. The Examiner can only assume that the Applicant intends to claim every possible limitation for that preamble including all single means limitations that could be constructed from the single preamble of claim 16. Claim 16 is definitely a single means claim by intended construction and implication.

The Examiner remedied the situation by rejecting claim 16 along with any of its dependant claims reciting that the single limitation in each of its independent claims construed a single single-means limitation. For example claim 17 recites "The article of claim 16 including instructions for causing the computer system to perform joint quantization before using the look-up table to decode the channel-encoded data packet". Instruction is a means that satisfies the criteria, the intent and the spirit of means plus function language in In Re Hyatt: "The long-recognized problem with a single means claim is that it covers every conceivable means for achieving the stated result, while

the specification discloses at most only those means known to the inventor". The Applicant has not taught every single set of instructions for implementing the single stated result. In fact; the Applicant has not even taught a single set of instructions for implementing the single

The Examiner disagrees and maintains the current rejection of claim 16 and its independent claims.

The Applicant contends, "The Office action alleges that quantizing the received packet of encoded data and assigning data erasure symbols to the quantized data by the AM corresponds to a look-up table that approximates an algorithmic decoding process. Applicant respectfully disagrees. First, the received encoded data is not decoded by the AZD. The AM simply quantizes the received encoded data to different output levels (Col. 8, lines 40-45). Furthermore, Kobayshi et al. clearly indicates the decoding process is performed by the iterative sequential application of a "generalized maximum likelihood decoder (MLD)" (Col. 8, lines 66-67 - Col. 9, lines 1-11) and a "generalized Hamming decoder" (Col. 9, lines 51-58) which recover the original information sequence (Col. 11, lines 13-14). Even if the AZD could be considered to involve a look-up table (which applicant disputes), it does not approximate the output of any algorithmic decoding process. Rather, the AM assigns values based on the input level of the encoded data (Col. 6, lines 16-20). It is, therefore, an approximation of an analog value, and not an algorithmic decoding process. Thus, Kobayashi et al. does not disclose or suggest decoding encoded data using a look-up table that stores the approximating output of an algorithmic decoding process".

The IEEE Authoritative Dictionary of IEEE Standards Terms defines decode as to convert data by reversing the effect of previous encoding and defines encode as to produce a unique combination of output signals in response to each group of input signals. The Examiner asserts that the output from the MUX in Figure 14A of Kobayashi is input into a channel modulator to produce a unique signal output, that is, the signal is modulation encoded. The AZD in Figure 14B of Kobayashi approximately reverses the affect of the modulation code.

AZD2 in Figure 12C of Kobayashi approximately reverses the effect of the E3 encoder in Figure 11A of Kobayashi. No matter how one looks at it, the AZD units approximate the reversed effect of some encoder.